



# CONFERENCE PROGRAMS AND ABSTRACT


ELECTRICAL ENGINEERING  
COMPUTER SCIENCE AND INFORMATICS

# EECSI 2015 CONFERENCE

 19-21 Agustus 2015



<http://iaesonline.com/eecsi>

 Palembang, Indonesia



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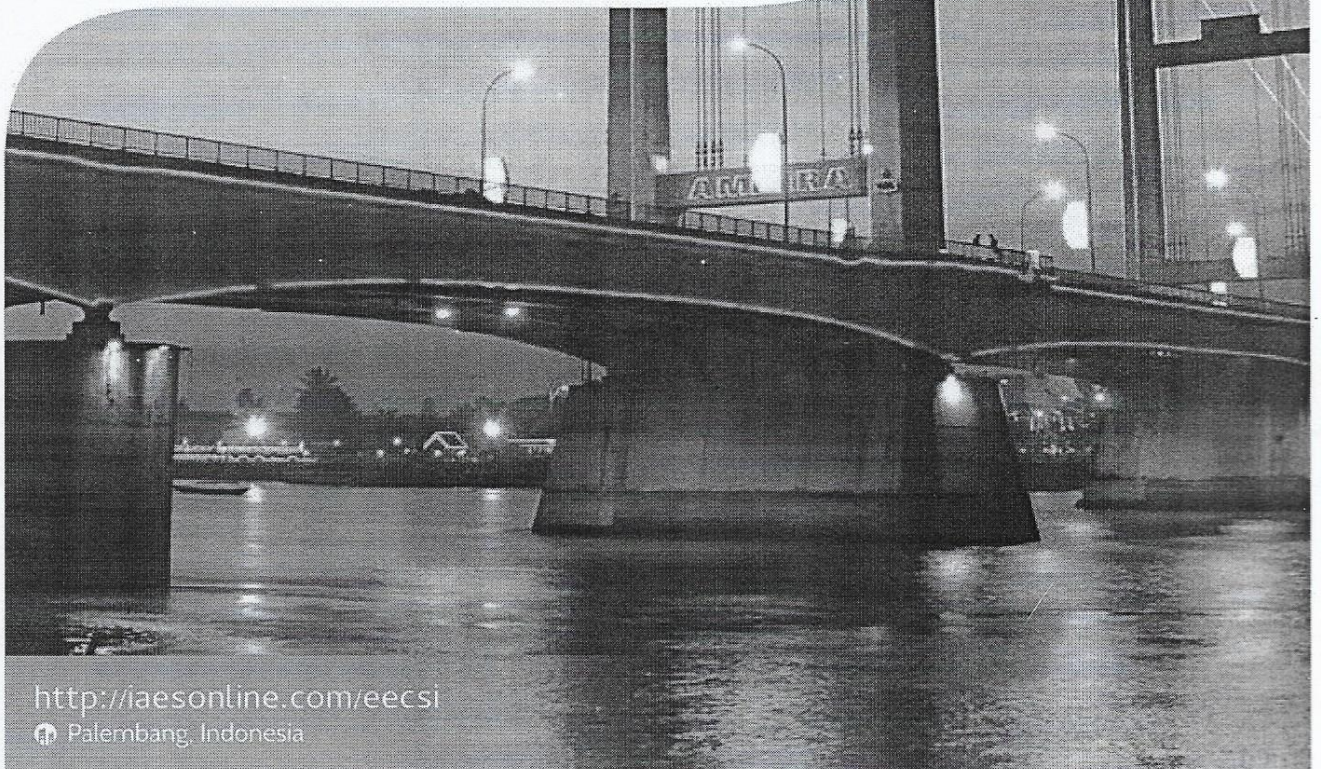


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**Conference Programs and Abstracts  
The 2<sup>nd</sup> International Conference on  
Electrical Engineering, Computer Science and Informatics (EECSI 2015)**

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## Foreword from General Chair EECSI 2015

In the name of Allah, Most Gracious, Most Merciful

Welcome to the 2<sup>nd</sup> International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2015) in Palembang City, Land of Sriwijaya, Indonesia.

EECSI 2015 provides a forum for researchers, academicians, professionals, and students from various engineering fields and with cross-disciplinary working or interested in the field of Computer Science, Informatics, Signal, Image, Video Processing, Electronics Engineering, Electrical Power Engineering, Instrumentation and Control Engineering, and Telecommunication Engineering.

I would like to express my hearty gratitude to all participants for coming, sharing and presenting your research findings in this conference. There are more than 120 papers submitted to EECSI 2015, however only high quality selected papers are accepted to be presented in this event, so we are also thankful to all the international reviewers and steering committee for their valuable work. I would like to give a compliment to all partners in publications and sponsorships for their valuable supports.

Organizing such an prestigious conference was incredibly challenging and would have been impossible without our outstanding committee, so I would like to extend my sincere appreciation to all committees and volunteers from Universitas Sriwijaya as a host, Universitas Ahmad Dahlan, Universitas Islam Sultan Agung and Universitas Diponegoro for providing me with much needed support, advice, and assistance on all aspects of the conference. We do hope that this event will encourage the collaboration among us in the future.

I wish you all find opportunity to get rewarding technical program, intellectual inspiration, renew friendships and forge innovation, and that everyone enjoys some of what Palembang City has to offer!

DR. Deris Stiawan  
General Chair EECSI 2015





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## Nonlinear Programming Approach of Wireless Pricing Models

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The pricing for wireless networks is developed to obtain surplus from subscribers. The linearity factors, elasticity price, price factors are discussed. The new approach of wireless pricing model proposed by previous research are approached by considering the model as the nonlinear programming problem that can be solved optimally using LINGO 13.0. The problem is considered to be nonlinear programming that can be solved using optimization tools. The solutions are expected to give some information about the connections between the acceptance factor and the price. The models attempt to maximize the total price for a connection based on QoS parameter. The maximum goal to maximum price is achieved when the provider set the increment of price change due to QoS change and amount of QoS value. The linearity parameter set up for most cases is obtained in ceiling value. Linear price factor ranges between the prescribed value especially cases when we increase the price change due to QoS change and increase the amount of QoS values.